

Listing of Claims:

1 (currently amended): A three phase converter fed motor, comprising:

a shaft mounted in bearings;

a stator having a laminated core, a winding and a plurality of slots, the winding having a current fed side, the stator being operatively connectable to a three phase-current via the winding;

a shield comprising an electrically conductive layer, the shield being operatively arranged between the current fed side of the winding and the laminated core so as to shield each slot, the shield being conductively connected to one of a grounded and conductively connected to the laminated core in a predetermined manner so as to reduce only on the current fed side of the winding whereby amplitudes of capacitive currents circulating in the stator and bearings are reduced so as to and thereby prevent bearing damage to the bearings, said predetermined manner comprising said conductive connection of the shield being only on the current fed side of the winding;

first insulating means operatively arranged between the shield and the winding for insulating the shield from the winding; and

second insulating means operatively arranged between the shield and the laminated core for insulating the shield from the laminated core.

2 (original): The motor according to claim 1, further comprising:

a ground connection, wherein the electrically conductive layer is connected to the ground connection.

3 (original): The motor according to claim 1, wherein the electrically conductive layer is connected to the laminated core.

4 (original): The motor according to claim 3, wherein the second insulating means is at least partially absent on the current side of the laminated core so as to allow conductive contact between the conductive layer and the laminated core.

5 (new): In a three-phase converter fed motor having a shaft mounted in bearings, a stator comprising a laminated core, a plurality of slots and a winding into which a three-phase motor-operating current is fed from one side of the winding, the improvement comprising an electrostatic shielding arrangement in the motor for reducing damage to the bearings from capacitively coupled induced high frequency bearing currents by minimizing the bearing currents, said improvement comprising:

- an electrically conductive layer operatively disposed between the current fed side of the winding and the laminated stator core;

- a first insulating layer disposed between the conductive layer and the winding for electrically insulating the conductive layer from the winding; and

- a second insulating layer disposed between the conductive layer and the laminated core for electrically insulating the conductive layer from the laminated core;

- said conductive layer being connected to ground by an electrical connection extending between the conductive layer and one of a ground and the laminated core, said electrical connection being connected to the conductive layer only on the current fed side of the

winding so as to minimize the bearing currents and thereby reduce damage to the bearings from said bearing currents.